

Name: _____ Date: _____ Pd: _____

Systems Word Problems HW #2

1. On Mars, there are some four-legged Martians and some two-legged Martians, for a total of eighty-nine Martians. There are a total of two hundred ninety-two legs on Mars. How many four-legged Martians are there? How many two-legged Martians?

a. Define variables that make sense for the situation.

b. Write AND SOLVE a system of linear equations. Show all work.

c. Check your answers via SUBSTITUTION and REALITY.

d. Write your final answers with LABELS.

2. A flower is currently three inches tall and grows at a rate of five inches per month. A vine is currently eight inches tall and grows at a rate of four inches per month. After how many months will the flower and the vine be the same height? What will this height be (in inches)?

a. Define variables that make sense for the situation.

b. Write AND SOLVE a system of linear equations. Show all work.

c. Check your answers via SUBSTITUTION and REALITY.

d. Write your final answers with LABELS.

